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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventors: Hisao KOGA, et al. Art Unit: 2661  
Application No.: 10/719,061 Examiner: Unassigned  
Filed: November 24, 2003  
For: MULTICARRIER TRANSMITTER, MULTICARRIER RECEIVER,  
AND MULTICARRIER COMMUNICATIONS APPARATUS

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents  
Washington, DC 20231

Dear Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the documents listed on the attached Form PTO 1449.

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106. Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,  
James E. Ledbetter  
Registration No. 28,732

Date: July 8, 2004

JEL/ejw  
ATTORNEY DOCKET NO. L8612.03108

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<p>FORM PTO-1449 U.S. Department of Commerce (Rev. 4/92) Patent and Trademark Office</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>O I P (Use several sheets if necessary)</p> <p>III 0 9 2004</p> <p>JC177</p>	ATTY. DOCKET NO.	SERIAL NO.
	L8612.03108	10/719,061
	APPLICANT	Hisao KOGA, et al
FILING DATE	GROUP	
November 24, 2003	2661	

JUL 8 9 2004

## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Maivar, Henrique S., "Signal Processing with Lapped Transforms," ISBN 089006-467-9, ppgs. 204-219, 1992.

**EXAMINER**

**DATE CONSIDERED**

**EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**